0500
347

p#6

RAW SEQUENCE LISTING DATE: 03/12/2002
PATENT APPLICATION: US/10/081,281 TIME: 09:35:09

Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:
(i) APPLICANT: Kindsvogel, Wayne
Gross, Jane A.
Sheppard, Paul
(ii) TITLE OF INVENTION: Immune Mediators and Related Methods
(iii) NUMBER OF SEQUENCES: 121
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Townsend and Townsend and Crew LLP
(B) STREET: Two Embarcadero Center, Eighth Floor
(C) CITY: San Francisco
(D) STATE: California
(E) COUNTRY: USA
(F) ZIP: 94111-3834
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
(vi) CURRENT APPLICATION DATA:
C--> **(A) APPLICATION NUMBER: US/10/081,281**
C--> **(B) FILING DATE: 20-Feb-2002**
(C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER: US/09/261,811A
(B) FILING DATE: 03-Mar-1999
(A) APPLICATION NUMBER: US 08/480,002
(B) FILING DATE: 07-JUN-1995
(A) APPLICATION NUMBER: US 08/482,133
(B) FILING DATE: 07-JUN-1995
(A) APPLICATION NUMBER: US 08/483,241
(B) FILING DATE: 07-JUN-1995
(A) APPLICATION NUMBER: US 60/005,964
(B) FILING DATE: 27-OCT-1995
(A) APPLICATION NUMBER: US 08/657,581
(B) FILING DATE: 07-JUN-1996
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Parent, Annette S.
(B) REGISTRATION NUMBER: 42,058
(C) REFERENCE/DOCKET NUMBER: 014058-005630US
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: (415) 576-0200
(B) TELEFAX: (415) 576-0300

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Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

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     (2) INFORMATION FOR SEQ ID NO: 1:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 33 base pairs
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
W--> 49    (ii) MOLECULE TYPE: DNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
           GCGCAAGCTT GAATTCGAGC TCATGGTGTG TCT                                33
     (2) INFORMATION FOR SEQ ID NO: 2:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 58 base pairs
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
W--> 59    (ii) MOLECULE TYPE: DNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
           AATTCGATAT CATGGTGTGT CTGAAGCTCC CTGGAGGCTC CTGCATGACA GCGCTGAC      58
     (2) INFORMATION FOR SEQ ID NO: 3:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 58 base pairs
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
W--> 69    (ii) MOLECULE TYPE: DNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
           CACTGTCAGC GCTGTCATGC AGGAGCCTCC AGGGAGCTTC AGACACACCA TGATATCG      58
     (2) INFORMATION FOR SEQ ID NO: 4:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 60 base pairs
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
W--> 79    (ii) MOLECULE TYPE: DNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
           ACTTCTTTAA AAACATCGTG ACTCCGCGTA CACCCCCGCC ATCGGGAGGC GGGTCAGGTG    60
     (2) INFORMATION FOR SEQ ID NO: 5:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 60 base pairs
               (B) TYPE: nucleic acid
               (C) STRANDEDNESS: single
               (D) TOPOLOGY: linear
W--> 89    (ii) MOLECULE TYPE: DNA
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
           GATCCACCTG ACCCGCCTCC CGATGGCGGG GGTGTACGCG GAGTCACGAT GTTTTTAAAG    60
     (2) INFORMATION FOR SEQ ID NO: 6:
          (i) SEQUENCE CHARACTERISTICS:
               (A) LENGTH: 59 base pairs
               (B) TYPE: nucleic acid
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Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

```
     97          (C) STRANDEDNESS: single
     98          (D) TOPOLOGY: linear
W--> 99      (ii) MOLECULE TYPE: DNA
     100     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
     101      AGTGACACTG ATGGTGCTGA GCTCCCCACT GGCTTTGTCT GACGAAAACC CAGTAGTGC       59
     103 (2) INFORMATION FOR SEQ ID NO: 7:
     104      (i) SEQUENCE CHARACTERISTICS:
     105          (A) LENGTH: 59 base pairs
     106          (B) TYPE: nucleic acid
     107          (C) STRANDEDNESS: single
     108          (D) TOPOLOGY: linear
W--> 109     (ii) MOLECULE TYPE: DNA
     110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     111      AAGTGCACTA CTGGGTTTTC GTCAGACAAA GCCAGTGGGG AGCTCAGCAC CATCAGTGT       59
     113 (2) INFORMATION FOR SEQ ID NO: 8:
     114      (i) SEQUENCE CHARACTERISTICS:
     115          (A) LENGTH: 27 base pairs
     116          (B) TYPE: nucleic acid
     117          (C) STRANDEDNESS: single
     118          (D) TOPOLOGY: linear
W--> 119     (ii) MOLECULE TYPE: DNA
     120     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
     121      GCCGGCTGAT GCTCCCCGCT GCACTGT                                         27
     123 (2) INFORMATION FOR SEQ ID NO: 9:
     124      (i) SEQUENCE CHARACTERISTICS:
     125          (A) LENGTH: 25 base pairs
     126          (B) TYPE: nucleic acid
     127          (C) STRANDEDNESS: single
     128          (D) TOPOLOGY: linear
W--> 129     (ii) MOLECULE TYPE: DNA
     130     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
     131      GCGCTCTAGA TCATATAGTT GGAGC                                           25
     133 (2) INFORMATION FOR SEQ ID NO: 10:
     134      (i) SEQUENCE CHARACTERISTICS:
     135          (A) LENGTH: 37 base pairs
     136          (B) TYPE: nucleic acid
     137          (C) STRANDEDNESS: single
     138          (D) TOPOLOGY: linear
W--> 139     (ii) MOLECULE TYPE: DNA
     140     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
     141      CCAGGGTCTA GATCATAAAG GCCCTGGGTG TCTGGAG                              37
     143 (2) INFORMATION FOR SEQ ID NO: 11:
     144      (i) SEQUENCE CHARACTERISTICS:
     145          (A) LENGTH: 37 base pairs
     146          (B) TYPE: nucleic acid
     147          (C) STRANDEDNESS: single
     148          (D) TOPOLOGY: linear
W--> 149     (ii) MOLECULE TYPE: DNA
     150     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
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Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

```
     151      CGAGGAATTC GCAGAGACCT CCCAGAGACC AGGATCC                          37
     153 (2) INFORMATION FOR SEQ ID NO: 12:
     154      (i) SEQUENCE CHARACTERISTICS:
     155           (A) LENGTH: 37 base pairs
     156           (B) TYPE: nucleic acid
     157           (C) STRANDEDNESS: single
     158           (D) TOPOLOGY: linear
W--> 159      (ii) MOLECULE TYPE: DNA
     160      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
     161      AACACTCTAG ATCACTGCAG GAGCCCTGCT GGAGGAG                          37
     163 (2) INFORMATION FOR SEQ ID NO: 13:
     164      (i) SEQUENCE CHARACTERISTICS:
     165           (A) LENGTH: 37 base pairs
     166           (B) TYPE: nucleic acid
     167           (C) STRANDEDNESS: single
     168           (D) TOPOLOGY: linear
W--> 169      (ii) MOLECULE TYPE: DNA
     170      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
     171      CGAGGAATTC TGAGTCCTGG TGACTGCCAT TACCTGT                          37
     173 (2) INFORMATION FOR SEQ ID NO: 14:
     174      (i) SEQUENCE CHARACTERISTICS:
     175           (A) LENGTH: 30 base pairs
     176           (B) TYPE: nucleic acid
     177           (C) STRANDEDNESS: single
     178           (D) TOPOLOGY: linear
W--> 179      (ii) MOLECULE TYPE: DNA
     180      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
     181      GGAGCATCAG CCGGCATCAA AGAAGAACAT                                  30
     183 (2) INFORMATION FOR SEQ ID NO: 15:
     184      (i) SEQUENCE CHARACTERISTICS:
     185           (A) LENGTH: 111 base pairs
     186           (B) TYPE: nucleic acid
     187           (C) STRANDEDNESS: single
     188           (D) TOPOLOGY: linear
W--> 189      (ii) MOLECULE TYPE: DNA
     190      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
     191      GAGGATGATT AAATGAGTCG CCTCTCGAAG GTGGCTCCAG TGATTAAAGC CAGAATGATG   60
     192      GAGTATGGAA CCACAGGAGG TGGAGGCTCT GGAGGTGGAG GCTCAGGAGG A           111
     194 (2) INFORMATION FOR SEQ ID NO: 16:
     195      (i) SEQUENCE CHARACTERISTICS:
     196           (A) LENGTH: 39 base pairs
     197           (B) TYPE: nucleic acid
     198           (C) STRANDEDNESS: single
     199           (D) TOPOLOGY: linear
W--> 200      (ii) MOLECULE TYPE: DNA
     201      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
     202      GGAGGCTCAG GAGGAGGTGG GTCCGGAGAC TCCGAAAGG                        39
     204 (2) INFORMATION FOR SEQ ID NO: 17:
     205      (i) SEQUENCE CHARACTERISTICS:
```

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PATENT APPLICATION: US/10/081,281 TIME: 09:35:09

Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

206 (A) LENGTH: 32 base pairs
207 (B) TYPE: nucleic acid
208 (C) STRANDEDNESS: single
209 (D) TOPOLOGY: linear
W--> 210 **(ii) MOLECULE TYPE: DNA**
211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
212 CGCGGGATCC GATCGTGGAG GATGATTAAA TG 32
214 (2) INFORMATION FOR SEQ ID NO: 18:
215 (i) SEQUENCE CHARACTERISTICS:
216 (A) LENGTH: 30 base pairs
217 (B) TYPE: nucleic acid
218 (C) STRANDEDNESS: single
219 (D) TOPOLOGY: linear
W--> 220 **(ii) MOLECULE TYPE: DNA**
221 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
222 GCCACCTGAT CCACCCCGCA GGGAGGTGGG 30
224 (2) INFORMATION FOR SEQ ID NO: 19:
225 (i) SEQUENCE CHARACTERISTICS:
226 (A) LENGTH: 30 base pairs
227 (B) TYPE: nucleic acid
228 (C) STRANDEDNESS: single
229 (D) TOPOLOGY: linear
W--> 230 **(ii) MOLECULE TYPE: DNA**
231 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
232 GGTGGATCAG GTGGCGAAGA CGACATTGAG 30
234 (2) INFORMATION FOR SEQ ID NO: 20:
235 (i) SEQUENCE CHARACTERISTICS:
236 (A) LENGTH: 30 base pairs
237 (B) TYPE: nucleic acid
238 (C) STRANDEDNESS: single
239 (D) TOPOLOGY: linear
W--> 240 **(ii) MOLECULE TYPE: DNA**
241 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
242 CCGGAATTCT TAACTAGTAG CTGGGGTGAA 30
244 (2) INFORMATION FOR SEQ ID NO: 21:
245 (i) SEQUENCE CHARACTERISTICS:
246 (A) LENGTH: 30 base pairs
247 (B) TYPE: nucleic acid
248 (C) STRANDEDNESS: single
249 (D) TOPOLOGY: linear
W--> 250 **(ii) MOLECULE TYPE: DNA**
251 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
252 CCGGAATTCT TAACTAGTAG CTGGGGTGGA 30
254 (2) INFORMATION FOR SEQ ID NO: 22:
255 (i) SEQUENCE CHARACTERISTICS:
256 (A) LENGTH: 30 base pairs
257 (B) TYPE: nucleic acid
258 (C) STRANDEDNESS: single
259 (D) TOPOLOGY: linear

VERIFICATION SUMMARY DATE: 03/12/2002
PATENT APPLICATION: US/10/081,281 TIME: 09:35:10

Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:49 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1
L:59 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=2
L:69 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3
L:79 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4
L:89 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:99 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=6
L:109 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:119 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
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L:149 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
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L:169 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
L:179 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=14
L:189 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:200 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:210 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
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L:230 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19
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L:631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:792 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64

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Input Set : N:\Crf3\RULE60\10081281.raw
Output Set: N:\CRF3\03122002\J081281.raw

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L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71
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L:984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76
L:1016 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77
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L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:1113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83
L:1129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
L:1161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86
L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87
L:1193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88
L:1213 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=90
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